

INSECT TYPES AND COTYPES.

A PRELIMINARY LIST OF THOSE IN THE FRANCIS HUNTINGTON SNOW ENTOMOLOGICAL COLLECTIONS.

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THE following is a list of the types and cotypes in the Francis Huntington Snow entomological collections, University of Kansas, Lawrence:

ORDER NEUROPTERA.

HEMEROBIDÆ.

Glenuyus snowii Banks.

ORDER ORTHOPTERA.

MANTIDÆ.

Stagomantis gracilipes Rehn.

TRYXALINÆ.

Cordillacris pima Rehn.

CEDIPODINÆ.

Lactista arphoides Rehn.

Trimerotropis snowi Rehn.

ACRIDINÆ.

Melanoplus blatchleyi Scudd.

bruneri Scudd.

gladstoni Brunn.

intermedius Brunn.

snowi Scudd.

LOCUSTIDÆ.

Ceuthophilus tuckeri Rehn.

Udeopsylla serrata Rehn.

ORDER HEMIPTERA-HETEROPTERA.

COREINA.

Alydus setosus V. D.

BERYTIDÆ.

Jalysus wickhami V. D.

CAPSIDÆ.

Xestœorus nitens Reut.

Diaphnidia debilis Uhl.

Orthoptylus translucens Tucker.

Oncotylus sericatus Uhl.

TINGITIDÆ.

Corythuca pergandei Heid.

ORDER HEMIPTERA-HOMOPTERA.

FULGORIDÆ.

Scolopsella reticulata Ball.

Oecleus snowii Ball.

BYTHOSCOPIDÆ.

Pediopsis erythrocephalus G. & B.

Idiocerus snowii G. & Pr.

perplexus G. & B.

rufus G. & B.

Agallia gilletei O. & B.

JASSIDÆ.

Memnoinia consobrina Ball.

fraterna Ball.

Parabolocratus brunneus Ball.

Deltocephalus flexuosus Ball.

Athysanus alpinus Ball.

Eutettix scitula Ball.

insana Ball.

striata Ball.

texana Ball.

snowi Ball.

osborni Ball.

Phlepsius graphicus Ball.

cumulatus Ball.

denudatus Ball.

turpiculus Ball.

Scaphoideus blandus Ball.

Lonatura noctuaga Ball.

salsura Ball.

Thamnotettix cockerelli Ball.

osborni Ball.

Empoasca atrolabes Gill.

unicolor Gill.

alboneura Gill.

nigroscuta G. & B.

ORDER LEPIDOPTERA.

HESPERIDÆ.

Pyrgus nesus Edw. (Cotype.)

polingii Barnes.

occidentalis Skinner.

Heteropia melon, var. *arizonensis* Skinner.

Erycides batabano Luc.

SATURNIIDÆ.

Hyperchiria zephyria Grt.

SYNTOMIDÆ.

- Cosmosoma rubrogutta Skinner.
 Syntomeida befana Skinner.
 Sepsis packardii, var. cocklei Dyar.

LITHOSIIDÆ.

- Ruscino arida Skin.

ARCTIIDÆ.

- Alexicles aspersa Grt.
 Pygoctenucha funerea Grt.
 Hemihyalea labecula Grt.
 Bertholdia trigona Grt.

NOCTUIDÆ.

- Cyathissa quadrata Sm. (Cotype.)
 Perigea morsa Smith. (Cotype.)
 Hadenia burgessi Morr.
 Oncocnemis major Grt.
 Acopa perpallida Grt.
 Aleptina flavomedia Sm. (Cotype.)
 Rhynchagrotis minimalis Grt.
 bimarginalis Grt.
 mirabilis Grt.
 Peridroma grandipennis Grt.
 Noctua conchis Grt.
 beata Grt.
 Chorizagrotis terrealis Grt.
 Feltia circumdata Grt.
 Porosagrotis catenula Grt.
 Euoxa olivalis Grt.
 ura Sm. (Cotype.)
 flavidens Sm.
 cænis Grt.
 munis Grt.
 infausta Wlk., var. rufula Sm.
 verticalis Grt.
 basalis Grt.
 anacosta Sm. (Cotype.)

- Richia parentalis Grt.
 distichoides Grt.

- Mamestra prodeniformis Sm.
 artesta Sm. (Cotype.)
 arida Sm. (Cotype.)
 æsculi Sm. (Cotype.)

- Barathra occidenta Grt.
 Trichorthosia parallella Grt.
 Anarta mimula Grt.
 Hydroecia juvenalis Grt.
 Pyrrhia stilla Grt.
 Heliothis suavis Hy. Edw.
 Rhodosea julia Grt.
 Grotella dis Grt.
 Bessula luxa Grt.
 Autographa snowi Hy. Edw.
 Marasmalus inficita Wlk. var. histrio Grt.
 Eucalyptra umbonalis Sm.
 Escaria clauda Grt.
 Metoponia nanata Neum.
 Minufolia instans Sm.
 Homopyralis miserulata Grt.
 cinctus Sm.
 Euclidia intercalaris Grt.
 Calipters bucetum Grt.

- Renia rigida Sm.
 Hypenula cominalis Sm. (Cotype.)
 Pathis albisulcatus Sm. (Cotype.)
 Rhescipha snowi Skinner.

LASIOCAMPIDÆ.

- Gloveria diasoma Grt.

GEOMETRIDÆ.

- Cœnocalpe fervifactoria Grt.
 formosata Streck.
 Emplocia inconstans Geyer.
 Fernaldella stalactaria Streck., var. alternaria Grt.
 Deilinia elimaria Hulst.
 perpallidaria Grt.
 Sciagraphia continuata Wlk., var. curvata Grt.
 Caripeta æquaharia Grt.
 Glaucina puellaria Dyar. (Cotype.)
 Phæoura mexicanaria Grt.
 Eucaterva variaria Grt.
 sabetesaria Grt.
 Lychnosea helveolaria Hulst.
 Therina vitraria Grt.
 Hyperitis indiscretata Hy. Edw.
 Metanema excelsa Streck., var. simpliciaris Grt.
 Sabulodes sulphurata imitata Hy. Edw.
 catenulata Grt.

SESHIDÆ.

- Melittia snowii Hy. Edw.

PYRALIDÆ.

- Symphysa simplicialis Kearf.
 Evergestis obliquilis Grt.
 Elophila avernalis Grt.
 Crambus dimidiatellus Grt.
 Dioryctria aurantiacella Grt.

TORTRICIDÆ.

- Proteoteras arizonæ Kearf.
 Epinotia snowiana Kearf.

YPONOMEUTIDÆ.

- Plutella yumaella Kearf.

BLASTOBASIDÆ.

- Holocera arizoniella Kearf.

TINEIDÆ.

- Trichopaga crescentella Kearf.

ORDER HYMENOPTERA.

TENTHREDINIDÆ.

- Hylotoma conspiculata MacG.

EVANIIDÆ.

- Hyptia texana Brad.

ICHNEUMONIDÆ.

- Ichneumon arizonensis Vier.
 egregiafascialis Vier.
 citrifacialis Vier.
 flavicornis Cress.
 varriola Cress.

- Ichneumon nigrosignatus* Vier.
 hemimelanorus Vier.
 humphreyi Vier.
 flavifascialis Vier.
 maurus Cress. (Homotype.)
- Amorpha** *pericalis* Vier.
 pæanaxareolata Vier.
 confluens Vier.
 confluens Vier., mutation *a*.
 confluens Vier., mutation *b*.
 confluens Vier., mutation *c*.
 augusta Vier.
 galvestonensis Vier.
 noctura Vier.
 relativo Vier.
 ferruginosa Vier.
- Platylabus omniferrugineus* Vier.
Phygadeuon oryxicornis Vier.
 spicocoxus Vier.
- Cryptus citrinimaculatus* Vier.
 consobrinus Vier.
 politicalypteras Vier.
- Nematopodius exclamans* Vier.
Mesostenus discoidaloides Vier.
- Hemiteles manitonensis* Vier.
 lathroscopoides Vier.
- Pezomachus homalommoide* Vier.
 testaceicoxus Vier.
 alagus Vier.
- Ophion idoneum* Vier.
Eremotylus felti Vier.
Thyreodon morio Fabr., var. *transitionalis*, Vier.
 snowi Vier.
- Nototrachys reticulatus* Cress. (Homotype.)
Anomalon fulvescens, var. *hemimelas* Vier.
 pæneferragineum Vier.
- Atrometus angitoides* Vier.
- Campoplex photomorphus* Vier.
 wyomingensis Vier.
- Limneria lawrencei* Vier.
 vigile Vier.
 perdistinctum Vier.
- Ischnoscopus tæniatus* Vier.
Angitia autumnalis Vier.
Mesochorus noctivagus Vier.
Olesicampa melanerythrogastra Vier.
Thersilochus hamiltonensis Vier.
 snowi Vier.
 egregiacolor Vier.
 memeticus Vier.
 quintilis Vier.
- Metopius grandior* Vier.
Boethus ænigmaticus Vier.
Synchnoporthus tuckeri Vier.
Agathobancus bradleyi Vier.
Pimpla parviabala Vier.
 landerensis Vier.
- Glypta aprilis* Vier.
 brunneisigna Vier.
 egregiafovea Vier.
 succineipennis Vier.
- Arenethra leucotænis* Vier.
- Harrimaniella pæneimitatrix* Vier.
Lampronota occidentalis Cress.
- STEPHANIDÆ.
- Stephanus tridens* Vier.
- BRACHONIDÆ.
- Bracon kansensis* Vier.
 piceipes Vier.
- Lysiphlebus succineus* Vier.
Melanobracon ulmicola Vier.
Vipio erythis Vier.
 picipectus Vier.
- Rhogas fuscicaudus* Vier.
 melanothorax Vier.
- Chelonus altitudinis* Vier.
 egregiacolor Vier.
 exogyrus Vier.
 nucleolus Vier.
 texanoides Vier.
- Microgaster tuckeri* Vier.
Dioclasma appalachicola Vier.
 secunda Vier.
- Boisteres indotatus* Vier.
Ischnutidea preteroptoides Vier.
Cardiocheilus nigroclypeus Vier.
Ascogaster mimeticus Vier.
Agathis wyomingensis Vier.
Microdus agathoides Vier.
 nigrotrochanter Vier.
 pimploides Vier.
 castaneicincta Vier.
 wichitaneicincta Vier.
 nigricaudus Vier.
- Lytophilus azygos* Vier.
Meteorus campestris Vier.
 relativus Vier.
 noctivagus Vier.
- Dinotrema signifrons* Vier.
Brachistes nocturnus Vier.
Zele crassicalcra Vier.
Cœnocelius politifrons Vier.
Iphianlax perepicus Vier.
 propinquus Vier.
 militaris Vier.
 melanogaster Vier.
 cinnabarinus Vier.
- Opius aberrans* Vier.
 basinigrus Vier.
 luticeps Vier.
 nigrocastaneus Vier.
- Aphereta delosa* Vier.
 subtricarinata Vier.
- Aspilota columbia* Vier.
Challidoites kansensis Brues.
Scopiarus monticola Brues.
Hormiopterus claripennis Brues.
- CHALCIDIDÆ.
- Leucopsis bicincta* Vier.
- PROCTOTRUPIDÆ.
- Scelio monticola* Brues.
 striaticollis Brues.
 venata Brues.

CHRYSIDIDÆ.

- Notozus connexus* Vier.
Chrysis equidens Vier.
 kahli Vier.
 kansensis Vier.
 petronella Vier.
 snowi Vier.

MUTILLIDÆ.

- Mutilla crepuscula* Vier.
 nigricauda Vier.
 prognoides.
 montivagoides Vier.
 quintilis Vier.
 imperialiformis Vier.
 strictinotus Vier.

SCOLIIDÆ.

- Elis pollenifera* Vier.
 pollenifera Vier, var. A. Vier.

POMPILLIDÆ.

- Anoplius snowi* Vier.
Cryptochelius pæneparecus Vier.
Aporus ferrugineipes Vier.
Pepsis angustimarginata Vier.

SPHECIDÆ.

- Sphex ashmeadi* Fernald. (Cotype.) ==
Parasphegex ferrugineus Fox. (Cotype.)

LARRIDÆ.

- Ancistronoma pæneregosa* Vier.
 tachysphegoides Vier.
 regetoides Vier.
 gerbeii Vier.
Tachysphex clarkonius Vier.
 crassiformis Vier.
 intermedius Vier.
Nitiliopsis foxii Vier.

NYSSONIDÆ.

- Gorytes guliemi* Vier.
 papagorus Vier.
Nysson clarcornis Vier.
 intermedius Vier.

PHILANTHIDÆ.

- Philanthus crassicornis* Vier.
 clarkonis Vier.
 magdalenæ Vier.

PEMPHREDONIDÆ.

- Passalœcus æqualis* Vier.
Diodontus brunneicornis Vier.

CRABRONIDÆ.

- Trypoxylon quintilis* Vier.
 negularis Vier.
Crabro canonicola Vier.
 cinctibellus Vier.
 clarkonis Vier.
Notoglossa calligaster Vier.
 pænomarginatus Vier.
 tænigaster Vier.

- Crabro papagorum* Vier.
Oxybelus exclamans Vier.

EUMENIDÆ.

- Odynerus amphichrous* Vier.
 anormiformis Vier.
 cochisensis Vier.
 congressus Vier.
 delodontus Vier.
 egregius Vier.
 excentralis Vier.
 guliehmii Vier.
 leionolus Vier.
 pimorum Vier.
 microstictus Vier.
 maricoporum Vier.
 papagorum Vier.
 pænevagus Vier.
 ampanulatus Vier.
 rectangulis Vier.
 sulfuritimetus Vier.
 pulverulanta Vier.
 spectabiliformis Vier.
 hidalgiformis Vier.

VESPIDÆ.

- Polistes exclamans* Vier.
Andrena alaskensis Vier.
 delosa Vier.

APIDÆ.

- Perdita klagesi* Vier.
Melissodes duplocincta Ckll.
 galvestonensis Ckll.
 herrickii Ckll.
 hexacantha Ckll.
 nigrosigmata Ckll.
 pallidisignata Ckll.
 prælantæ Ckll.
 portivagans Ckll.
 semitristis Ckll.
 tennitarsis Ckll.
Xenoglossa pruinosa, var. *limitavis* Ckll.
 strenua, var. *Kan.* Ckll.
Synhalonia gillettii, sub. sp. *snowii* Ckll.
 fustincta Ckll.
 lippias, var. *sublippiæ* Ckll.
Diadasia afflicta penafflicta Ckll.
Exomalopsis snowii Ckll.

ORDER DIPTERA.

TIPULIDÆ.

- Eriocera eriophora* Will.
 obscura Will.
Rhaphidolabis debilis Will.
Tipula acuta Doane.
 dorsimacula Walker.
 dorsilineata Doane.

CHIRONOMIDÆ.

- Tersesthes torrens* Towns.
Ceratopogon dimidiatus Adams.
 flavus Will. (Cotype.)

Chironomus anonum Will. (Cotype).
flaviventris Johan.
longimanus Will. (Cotype).
lucifer Johan.
microcerus Will. (Cotype).

CULICIDÆ.

Culex affinis Adams.
apicalis Adams.
particeps Adams.

MYCETOPHILIDÆ.

Ceroplatus apicalis Adams.
Platyura gracilis Will.
notabilis Will.
pulchra Will.
Sciophila angulate Adams.
nigricauda Adams.
Syntemna mutor Adams.
Neoglyphyoptera cuneola Adams.
lineola Adams.
striata Will.
Macrocera diluta Adams.
Eunoriste occidentalis Coq.

CECIDOMYIDÆ.

Asphondylia atriplicis Towns.
Cecidomyia raditæ Snow.

SIMULIIDÆ.

Simulium argus Will.
notatum Adams.
venustum Say.

STRATIOMYDÆ.

Scoliopelta lutipes Will.
Hermetia comstocki Will.
eiseni Towns.
Ptæcticus sackeni Will.
Chrysochroma albipes Towns.
Macrosargus clavis Will.
Odontomyia americana Day.
flava Day.
pilosa Day.
pubescens Day.
Euparyphus albipilus Adams.
limboventris Will.
mutabilis Adams.
ornatus Will.
septemmaculatus Adams.
Clitellaria argentata Will.
Nemotelus abdominalis Adams.
bruesii Mel.
kansensis Adams.
trinotatus Mel.

TABANIDÆ.

Pangonis dives Will.
fera Will.
Silvius pollinosus Will.
Chrysops bistellatus Daeck. (Cotype).
discalis Will.
frazari Will.
pachyceras Will.

Chrysops pertinax Will.
sequax Will.
Tabanus baal Towns.
fenestra Will.
fratellus Will.
fur Will.
guttatus Towns.
hyalinipennis Hine.
laticeps Hine.
osborni Hine.
parvulus Will.
productus Hine.
pygmaeus Will.
sodalis Will.
sagittarius Macq.
tarsalis Adams.
atratus Hine.

LEPTIDÆ.

Xylophagus decorus Will.
gracilis Will.
nitidus Adams.
Xylomyia parens Will.
Arthroceras pollinosus Will.
Leptis palpalis Adams.
pleuralis Adams.
Chrysopila bella Adams.
flavibarbis Adams.
lucifera Adams.
Symphoromyia flavipalpis, Adams.
pachyceras Will.
plangens Will.

NEMESTRINIDÆ.

Hirmoneura flavipes Will.
Rhynchocephalus sackeni Will.
volaticus Will.

CYRTIDÆ.

Acrocera liturata Will.

BOBYLIIDÆ.

Anthrax æmulus O. S.
agrippina O. S.
alto Tucker.
comparato Tucker.
cunculus O. S.
faustina O. S.
livia O. S.
moneta O. S.
sabina O. S.
Triplasius novus Will.
Heterostylum sackeni Will.
Anastæchus melanohalteralis Tucker.
fulvipennis Tucker.
Lordotus pulcherrimus Will.
Eclimus auratus Will.
lotus Will.
melanosus Will.
sodalis Will.
Desmatoneura argentifrons Will.
Aphæbantus carbonarius O. S.
conurus O. S.
cyclops O. S.

Desmatomyia anomala Will.
Dolichomyia gracilis Will.

THEREVIDÆ.

Psilocephala acuta Adams.
lateralis Adams.
occipitalis Adams.
Thereva anomala Adams.
crassicornis Will.

SCENOPINIDÆ.

Scenopinus electa Adams.
mirabilis Adams.

MYDAIDÆ.

Ecthypus townsendi Will.
luteolus Will.
Mydas abdominalis Adams.
scitulus Will.

APIOCERIDÆ.

Rhaphiomydas mellifex Towns.
xanthos Towns.

ASILIDÆ.

Leptogaster pictipes Loew. (Homotype.)
Stenopogon æacidinus Will.
gratus Loew. (Homotype.)

Triclis tagax Will.

Myelaphus rufus Will.

Dioctria albius Walker.

pusio O. S.

Cyrtopogon dasyllis Will.
dubius Will.
?gibber Will.
præpes Will.

Lasiopogon terricolo Johnson.

Holopogon snowii. (Cotype.)

Saropogon albifrons Black. (Cotype.)
combustus Loew. (Homotype.)

Deromyia perplexo M. A. C. (Cotype.)

Taractitus brevicornis Will.

Cophura? brevicornis Will.

fur Will.

scitula Will.

Niocles abdominalis Will.

rufus Will.

Nusa chalybea Will.

Dasyllis astur O. S. (Homotype.)

Laphria canis Will.

carbonarius Will.

ferox Will.

pubescens Will.

ruficauda Will.

ventralis Will.

vivax Will.

xanthippe Will.

Ommatius nigromaculosus Back.

Proctacanthus arno Towns.

Erax dubius Will.

jubatus Will.

latrunculus Will.

leucocomus Will.

similis Will.

stamineus Will.

Mallophora guildiana Will.

Promachus albifaces Will.

princeps Will.

rufipes Fabr.

Stenoprosopus arizonensis Will.

Neoitamus affinis Will.

distinctus Will.

Tolmerus delusus Tucker. (Cotype.)

callidus Will.

mesæ Tucker.

Philodicus rufipennis Hine.

Asilus angustifrons Will.

astutus Will.

Rhadiurgus leucopogon Will.

DOLICHOPODIDÆ.

Psilopodinus insularis Ald.

Diaphorus contiguus Ald.

dubius Ald.

flavipes Ald.

simplex Ald.

spectabilis Loew. (Cotype.)

Asyndetus fratellus Ald.

Chrysotus albipalpus Ald.

excisus Ald.

hirsutus Ald.

niger Ald.

picticornis Loew.

Eutarsus sinuatus Ald.

Parasyntormon occidentale Ald.

Sympycnus frater Ald.

Anepsiomyia linearis Ald.

Neurigona lateralis Say.

Thinophilus pectinifer Wheeler.

Thrypticus cupuliferus Ald.

singularis Ald.

Hydrophorus canescens Wheeler.

Liancalus hydrophilus Ald.

similis Ald.

Dolichopus albiciliatus Ald.

ciliatus Ald.

coloradensis Ald.

convergens Ald.

dakotensis Ald.

duplicatus Ald.

grandis Ald.

idahoensis Ald.

kansensis Ald.

marginatus Ald.

obcordatus Ald.

occidentalis Ald.

plumosus Ald.

tenuipes Ald.

vigilans Ald.

willistonii Ald.

Herocostomus latipes Ald.

Paraclius filifer Ald.

venustus Ald.

Sarcionus lineatus Ald.

Pelastoneurus argentifer Ald.

kansensis Ald.

EMPIDIDÆ.

- Drapetis flavida* Will.
latipennis Mel. (Homotype.)
flaviceps Will. (Cotype.)
Paralhalassius aldrichi Mel.
Thinodromis inchoata Mel.
Hilara nugax Mel.
Rhamphomyia sociabilis Will.

PHORIDÆ.

- Aphiochaeta halictorum* Mel. & Brues.
longifrons Brues. (Metatype.)

PLATYPEZIDÆ.

- Callinymia venusta* Loew.
Calotarsa calceata Snow.
ornatipes Towns.
Platypeza abscondita Snow.
cinerea Snow.
pulchra Snow.
tæniata Snow.
umbrosa Snow.
unicolor Snow.

PIPUNCULIDÆ.

- Pipunculus fuscitarsis* Adams.

SYRPHIDÆ.

- Microdon lanceolatus* Adams.
melanogaster Snow.
pallipennis Snow.
violens Towns.
xanthophilus Towns.
Callicera montensis Snow.
Nausigaster scutellaris Adams.
Chilosia chalybescens Will.
lucta Snow.
ngripennis Will.
tarda Snow.
willistonii Snow.
Chalcomyia ærea Loew.
Baccha bella Will.
Platychirus palmulosus Snow.
Melanostoma cœrulescens Will.
concinnum Snow.
kelloggi Snow.
Syrphus creper Snow.
disgregus Snow.
montivagus Snow.
pullulus Snow.
ruficauda Snow.
Xanthogramma habilis Snow.
Sphærophoria melanosa Will.
Brachyopa cynops Snow.
Volucella apicifera Towns.
Eristalis montanus Will.
Tropidia incana Towns.
Helophilus dychei Will.
Mallota albipilis Snow.
Criorhina lupina Will.
Spilomyia kahlII Snow.
Ceria snowi Adams.

CONOPIDÆ.

- Conops bellus* Adams.
fumipennis Adams.
semifumosus Adams.
gracilis Will.
sylvosus Will.
xanthopareus Will.
Physocephala affinis Will.
burgessi Will.
furcillata Will.
Zodion abitus Adams.
bicolor Adams.
parvum Adams.
pictulum Will.
pygmæum Will.
scapulare Will.
Stylogaster neglecta Will.
Dalmannis picta Will.
Oncomyia baroni Will.
modesta Will.
modesta, var. melanopoda Will.
propinqua Adams.
Myopa pictipennis Will.
pilosa Will.
plebeia Will.
tectura Adams.

TACHINIDÆ.

- Phoranthia occidentis* Walk.
Alophora ænoventris Will.
Euscopolis dakotensis Towns.
Trichopoda subciliipes Towns.
Ceratomyiella conica Towns.
Rhinophora mexicana Towns.
valida Towns.
Anisia vanderwulpi Towns.
Euryceromyia robertsonii Towns.
Hypostena floridensis Towns.
indecisa Towns.
Hyalurgus johnsoni Towns.
Polidea americana Towns.
Eumythyria illinoisensis Towns.
Leucostoma atra Towns.
?neomexicana Towns.
senilis Towns.
Clytiomyia flava Towns.
Xanthomelana atripennis Say.
Epigrymyia floridensis Towns.
geniculata Towns.
lucens Towns.
polita Towns.
robertsonii Towns.
Ginglymyia acirostris Towns.
Plagiprospheryas floridensis Towns.
parvipalpos Van der W.
Plagia aurifrons Towns.
Siphoplagia anomala Towns.
Goniochaeta plagioides Towns.
Chaetoglossa picticornis Towns.
violæ Towns.
Pachyophthalmus aurifrons Towns.
floridensis Towns.
Pseudotractocera neomexicana Towns.

Belvosia vanderwulpi Will.
Malanophrys flavipennis Will.
Aphria ocypterata Towns.
Ocyptera argentea Towns.
Nemoræa hypantriæ Towns.
 nigricornis Towns.
Gymnochaeta ruficornis Will.
 vivida Will.
Hyphantrophaga hyphantriæ Towns.
Exorista eudryadis Towns.
 lagoæ Towns.
 plagioides Towns.
Euphorocera tachinomoides Towns.
Phorocera comstocki Will.
 lophyri Towns.
 puer Will.
Hypertrophocera parvipes Towns.
Frontina archippivora Will.
 frenchii Will.
Sturmia nigrita Towns.
Masicera eufitchiæ Towns.
 exilis Coq.
 hemarides Towns.
Prospheerysa promiscua Towns.
 websterii Towns.
Vanderwulpia atrophopodoides Towns.
 sequens Towns.
Tachina floridensis Towns.
 spinulosa Towns.
Dæchaeta harveyi Towns.
Neotractocera anomala Towns.
Paraphyto giletti Towns.
Blepharipeza nigrisquamis Towns.
 rufescens Towns.
Muscopteryx chætosula Towns.
Paradidyma braueri Will.
 singularis Towns.
Atrophopalpus angusticornis Towns.
Phorichaeta sequax Will.
Metopia leucocephala Towns.
Hilarella decens Towns.
 elita Towns.
 polita Towns.
Brachycoma chihuahauensis Towns.
 intermedia Towns.
 sarcophagina Towns.
Euthyrosopa petiolata Towns.
Gonia porca Will.
 exul Will.
 senilis Will.
 sequax Will.
Spallanzania finitima Snow.
 hebes Fal.
Eucnephalia gonoides Towns.
Amobia distincta Towns.
Archytas hystericoides Will.
Echinomyia dakotensis Will.
 hystricosa Will.
Epalpus bicolor Will.
 signiferus Wlk.
Jurinella exilis Towns.
 soror Will.

DEXIIDÆ.

Hystrichodexia roederi Will.
Melanodexia tristis Will.

SARCOPHAGIDÆ.

Sarcophaga chætopygialis Will.
 cimbicis Towns.
 concinata Towns.
 helicis Towns.
 leucaniæ Towns.
 micropygialis Will.
Sarcodexia sternodontis Towns.
Sarcophagula imbecilla Van der W.

MUSCIDÆ.

Chrysoomyia desvoidyi Hough.
Morellia nigriceps Bigot.
Hæmatobia alcis Snow.

BORBORIDÆ.

Aptilotus politus Will.
Limosina exigua Adams.
 evanescens Tucker.
 setigera Adams.

SCIOMYZIDÆ.

Tetanocera inopa Adams.
Sepedon ornatifrons Adams.
 scapularis Adams.

SAPROMYZIDÆ.

Pachycerina dolorosa Will.
Sapromyza ingrata Will.
 octovittata Will.
 polita Will.
 puella Will.
 sororia Will.

ORTALIDÆ.

Rivellia brevifasciata Johnson.
Euxesta apicalis Will.

TRYPETIDÆ.

Spilographa concolor Van der W.
Trypeta occidentalis Snow.
Polymorphomyia basilica Snow.
Edaspis minuta Snow.
 montana Snow.
Rhagoletis zephyria Snow.
Eutreta longicornis Snow.
Eurosta fenestrata Snow.
 reticulata Snow.
Xenochaeta dichromata Snow.
Icterica fasciata Adams.
Tephritis dupla Cress. (Cotype.)
 pallidipennis Cress. (Cotype.)
 obscuripennis Snow.
 variabilis Doane.
Euaresta bellula Snow.
 latipennis.
Urellia conjuncta Adams.
 flava Adams.

MICROPEZIDÆ.

Micropeza turcana Towns.
Calobata pleuritica Johnson.

DIOPSIDÆ.

Sphyracephala affinis Adams.
nitidus Adams.
pollinosus Adams.

EPHYDRIDÆ.

Notophila decoris Will.
Paralimna multipunctata Will.
obscura Will.
Discomyza dubia Will.
Discocerina obscura Will.
Ochtheroidea atra Will.
Ephydra pygmæa Will.
tarsata Will.

OSCINIDÆ.

Chlorops albifacies Adams.
appropinqua Adams.
bilineata Adams.
cinereipennis Adams.
halteralis Adams.
ingrata Will.
litrata Adams.
parva Adams.
recurva Adams.
rubicunda Adams.
Hippelates splendens Adams.
Elachiptera bilineata Adams.
Oscinis collusor Towns.
incipiens Will.

DROSOPHILIDÆ.

Drosophila coffeata Will.
ornatipennis Will.
pallida Will.

AGROMYZIDÆ.

Agromyza lateralis Will.
sorsosis Will.
Ophthalmomyia lacteipennis Loew.
lobioptera Will. (Cotype.)

HIPPOBOSCIDÆ.

Trichobius dugesii Towns.

NYCTERIBIIDÆ.

Nycteribia antrozoi Towns.

AFRICAN DIPTERA.

Systropus snowi Adams.
Promachus flavibarbis Adams.
negligens Adams.
solus Adams.
apicalis Adama.
Sisyrnodites major Adams.
nigrifimbriis Adams.
Melanostoma bituberculata Adams.
Eristalis communis Adams.
æqualis Adams.
dissimilis Adams.
longicornis Adams.
Hineia flavipes Adams.
Pasacompsomyia houghi Adams.
splendida Adams.
vesticulis Adams.
Tipula velusa Doane.
nincineta Doane.
spectabilis Doane.
streptocera Doane.
sulphuræ Doane.

SUMMARY OF ORDERS.

| | <i>Species.</i> |
|-------------------------------|-----------------|
| Diptera | 510 |
| Hymenoptera | 215 |
| Lepidoptera | 97 |
| Hemiptera | 38 |
| Orthoptera | 11 |
| Neuroptera | 1 |
| Total number of species | 872 |